

10/525725

Fig. 1

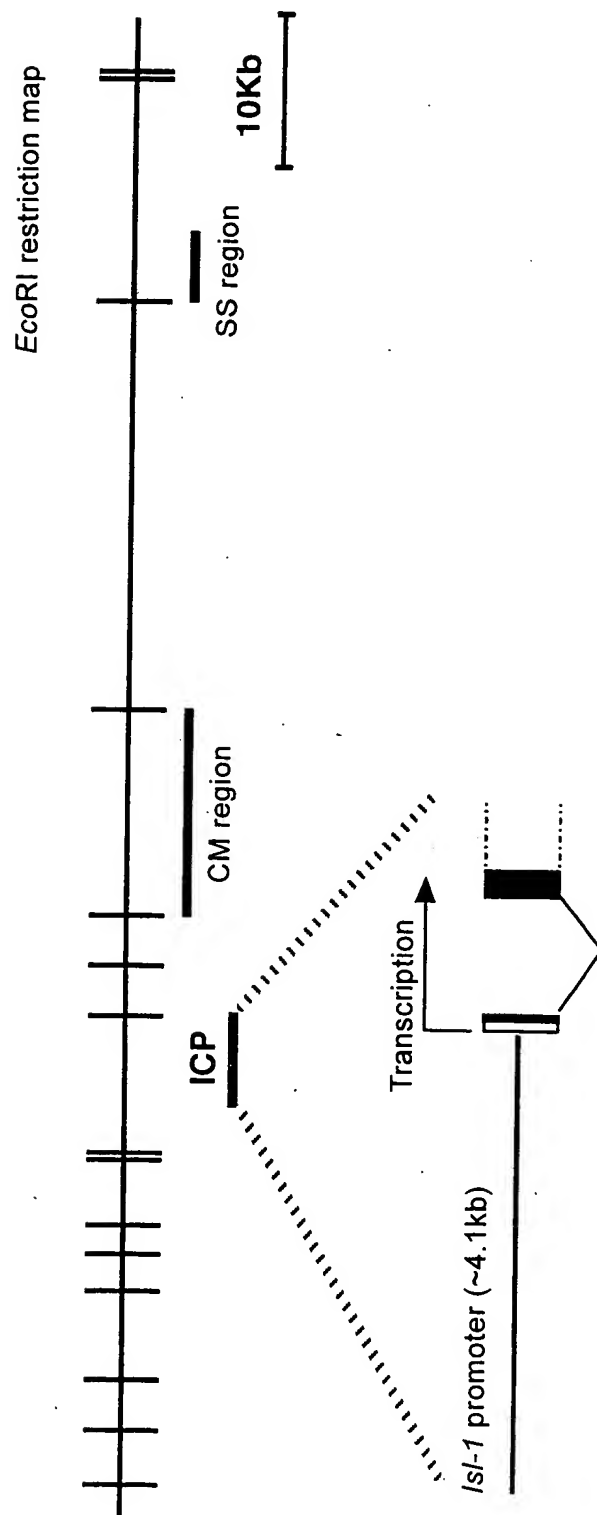


Fig. 2

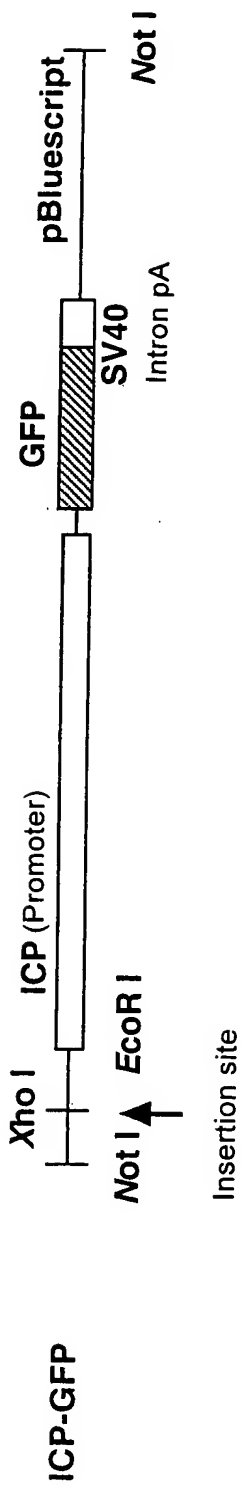


Fig. 3

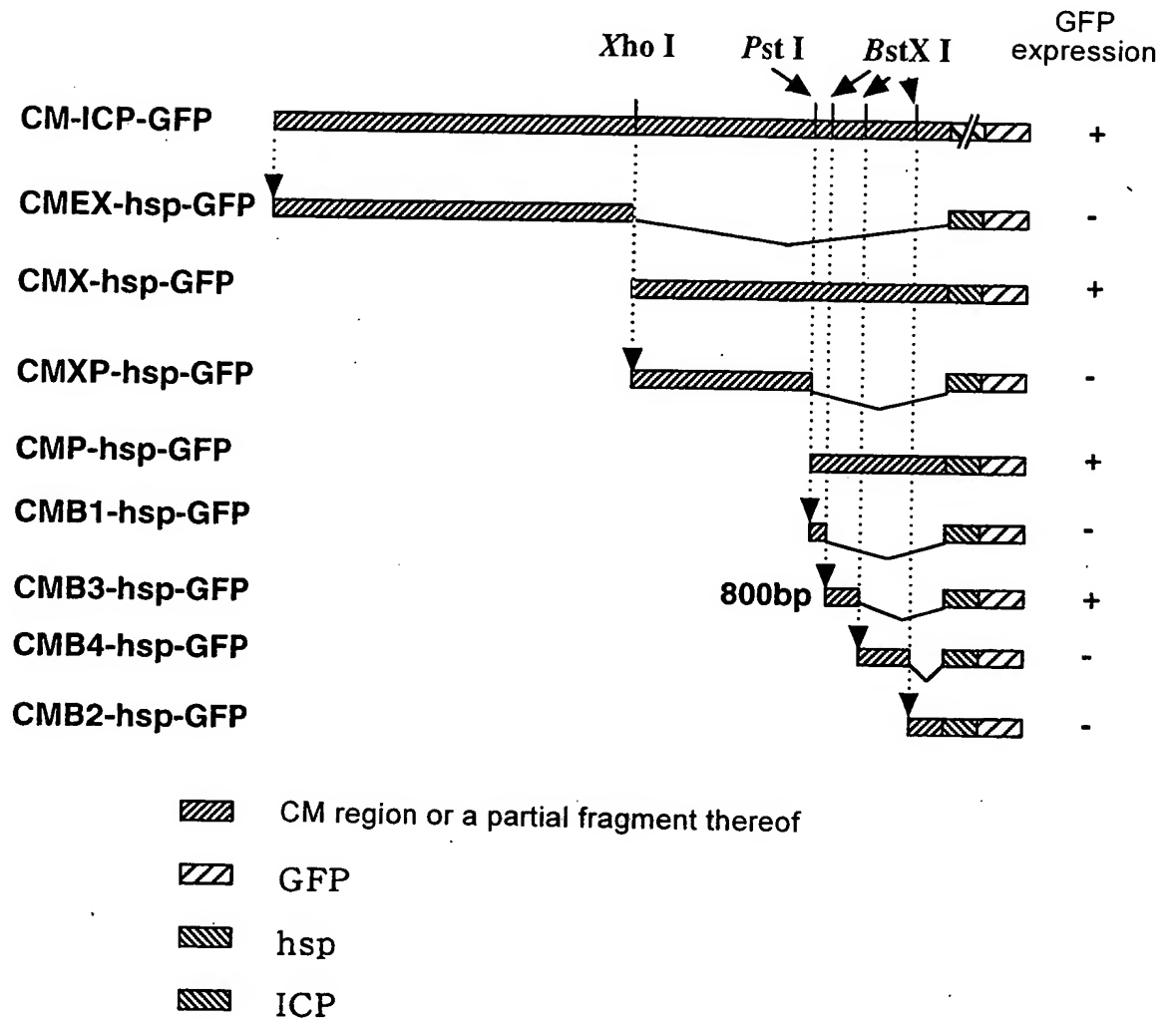


Fig. 4

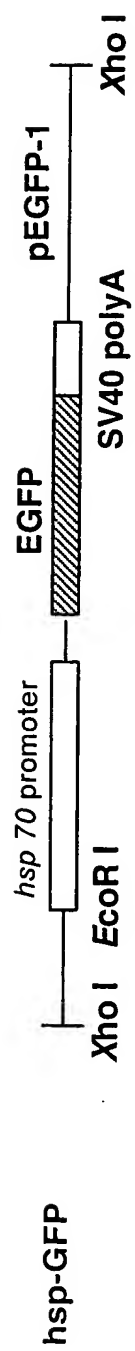


Fig. 5

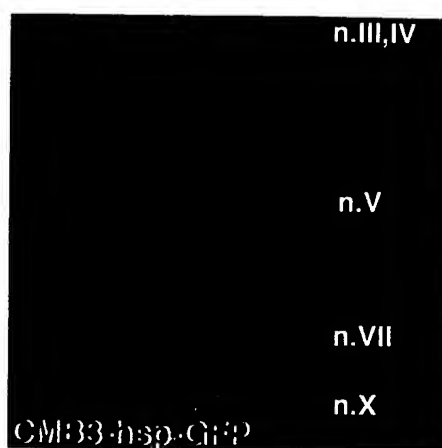


Fig. 6

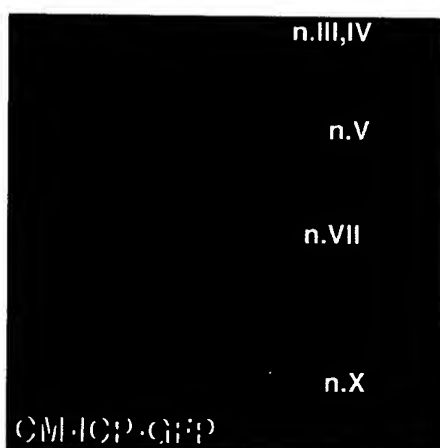


Fig. 7.

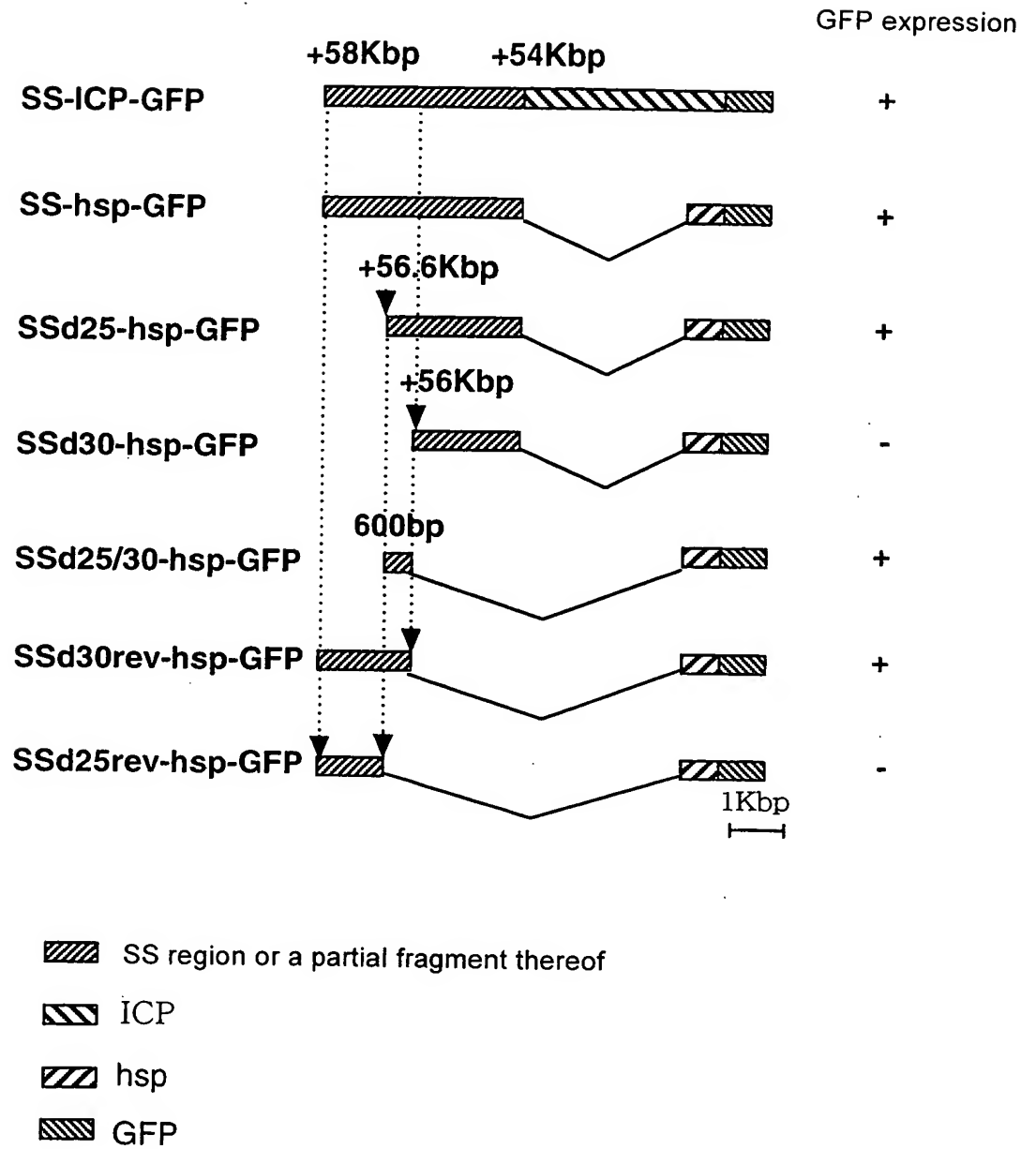


Fig. 8

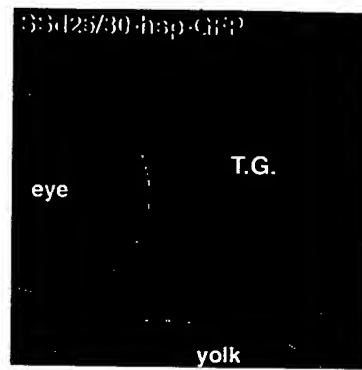


Fig. 9



10/525725

Fig. 10

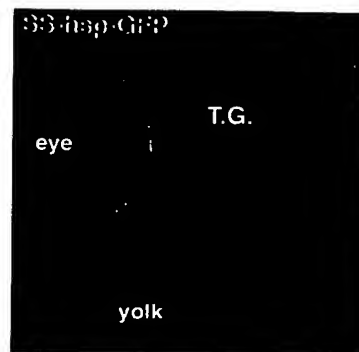


Fig. 11

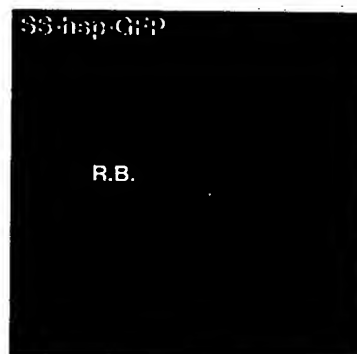


Fig. 12

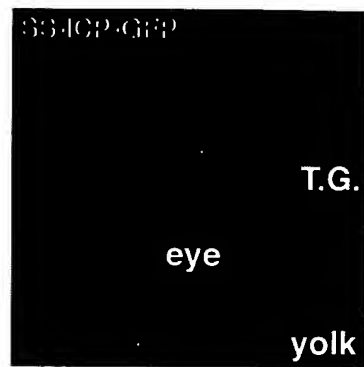


Fig. 13

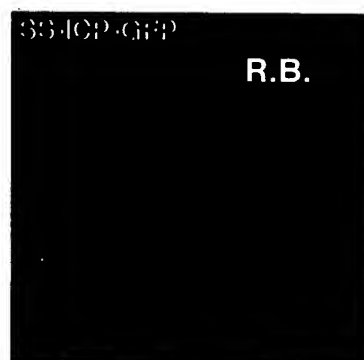


Fig. 14

```

zCM      1  GTAATCAGATATTTCTAAAGAGTAA-ACACAGAAATGTGGTAAAGCAGGGGGTGT
fuguCM   1  -----T-----ATCCCTGGAAC-ATGTCAATATATTTCCAAATATGTGGAC
mCM      1  -----CATG-ACAGTC-ACAGTTCTCTCTCTTTTCAAATTAATCA
huCM     1  -----CAA-ACAGATACACCTACCTCTTAATTAATCA

zCM      60  CGTGACTTTTATATCTCTTTTGCATTTGATGCTAGGCC-ACTCCTT-AGGAGATG
fuguCM   42  ATGGAAATATGAGCTTACAAATGGGTCATTTGCAATTTACATCATGATTAGCTG
mCM      39  GTTATA-ACAGATATGCTTCTATGTTTCATGCAATAGG-TTAAGTGTTCCTTA-
huCM     33  GTTCTACACAGTATGTTTATATGTTTCATGCAATTTGG-CTGAGTGTTCCTTA-

zCM      118  AATCGAAACCTGTG-ATAAATCATGAAAGGATATGG-ACACA-ACAGGTGGGCA
fuguCM   102  TAAAGGCACACGTTTC-AGGCTGGTCTGGG-ACAGACACCAATGACGTACAGTAAC
mCM      96  --ACATCT-TAATTTAGGAAATTAAT-ACITCATCAGGAATTTACAAAGAA
huCM     91  --ACATCT-TAATTA-ATTTAGATTAATATTCATCAGGAATTTACAAAGAA

zCM      175  ATCTATCAATACCC-TGGCAACCGACATGCAAGCTACACATTA--AGGA-ACAA
fuguCM   160  ATGAGGTGGG-CATTTATCAGGCCCTCTG-CAACATGCGGAAAGAGGCA-
mCM      152  ATGGACAC-ACAGG-TGGTAATTTA-TC-ATACGAGGGGTGGG--GAG--C
huCM     146  ATGGACAC-ACAGG-TGGTAATTTA-TC-ATGTGCGGGGGG-AG--TAGGGAGG

zCM      231  AT-CATTTTA-ATTAGCTGAGTGAATGTGATTTGCTGATGCGGGAGTAG--GCTCTG
fuguCM   217  ATC-ATTTTAT-TAGCTAGTGAATGTGATTTGCTGATGCGAGTGGAGCGGGCTC
mCM      201  AGGCATTTTATATTAGCTGAGTGAATGAGTTTCTGACACAGAAAGGCA--GGGCA
huCM     199  AGGCATTTTATATTAGCTGAGTGAATGAGTTTCTGACACAGAAAGGCA--GGCTTA

zCM      287  CACCAT------TAAATGTCTAATTTTCTGCAAAA-ATCCATCTGAGTGACCT
fuguCM   275  TAGTCTGCACAT-TAAATGTCTAATTTTCTTGCAGAAATGCCCAATGAGCGCCCT
mCM      259  GTGATAT------TAAATGTCTAATTTTCTGCAAAA-ATCCATCTGAAAGGCT
huCM     257  GTCATAT------TAAATGTCTAATTTTCTGCAAAA-ATCCATCTGAGCGCCCT

zCM      341  ACCCAGTCAATCAAGT-TAAAGGTATGGGTGCTTAATTTGATTTACCAATATAAATG
fuguCM   335  ACCCAGTCAATCATGTT-TAAAGGTATGGGTGCTTAATTTGATTTACCAATATAAATG
mCM      313  ACCCAGTCAATCATAT-TAAAGGTATGGGTGCTTAATTTGATTTACCAATATAAATG
huCM     311  ACCCAGTCAATCATAT-TAAAGGTATGGGTGCTTAATTTGATTTACCAATATAAATG

zCM      401  CAATAGGTGATTAGTGGAGGGGGAGG-AGAGTAGGAGGCTCTTTTAAACCATCA
fuguCM   395  CAATAGGTGATTAGTGGAGTGGAGG-ACAGTAGGAGGCTCATTTAAGCCATCA
mCM      373  CAATTAGGTATTAGTGGAGTGGG-AG-AGAGTAGGAGGCTTTTAAACCATCA
huCM     371  CAATTAGGTATTAGTGGAGTGGG-AG-AGAGTAGGAGGCTTTTAAACCATCA

zCM      460  GTTAATGTGACAGACATGGACTGGGAGCAGCA-AGATGTTTAGCATATTCGTTTG
fuguCM   454  GTTAATGTGACAGACAGAGAGCTGGGAGCAGCA-AGATGTTTAGCATATTCGTTTG
mCM      430  GTTAATGTGACAGACAGCAACTGGGTATG-CAAGAAATTTTAGCATATTCGTTTG
huCM     428  GTTAATGTGACAGACAGCAACTGGGTATG-CAAGAAATTTTAGCATATTCGTTTG

zCM      519  ATTAGGCTACAAAATTTAAT-TAGGTGGCTAATTTGTTGCAAAATTTGACCACTA
fuguCM   513  ATTAGGCTACAAAATTTAAT-TAGTAAGGTGATTTGTTGCAATTTGACATC-AGAA
mCM      489  ATTAGGCTACAAAATTTAAT-TAGGTGGCTAATTTGTTGCAAAATTTGCTTACACTA
huCM     487  ATTAGGCTACAAAATTTAAT-TAGGTGGCTAATTTGTTGCAAAATTTGCTTACACTA

zCM      578  CTGAAGA-CAATTTTITTTTAAACCGTG-AAAACCCCT-TCGTGGTGAAT
fuguCM   572  AGAATCTCTGACACACCAATTTTTCCTTTTACCCTACATGCTGATTTCAAC
mCM      548  GAAAAAGG-CAAGAGATTTTITTTTACCTTTT-CATGCAATATCTG
huCM     546  GAAAAAGG-CAAGAGATTTTITTTTACCTTTT-ATGGCAATATCTG

zCM      633  TTGTCCAAATGACCT-ATGCCATATGTAAG-CATAATTAATAATGGAGA-
fuguCM   632  CATACCT-ATCTTTTTT-
mCM      604  TGTGATTTTAC-CAATGATTC-TGCCATTTG-
huCM     595  TGTGATTTTAC-CAATGATTC-TGCCATTTGCAAGCCCT-TATTAA-ATGAA

```

~~~~~ Region 1

----- Region 2

~~~~~ Region 3

10/52579F

Fig. 15A

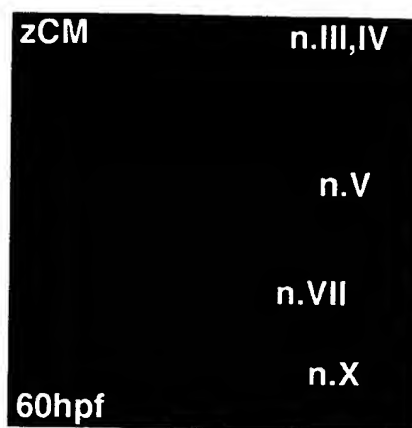


Fig. 15B

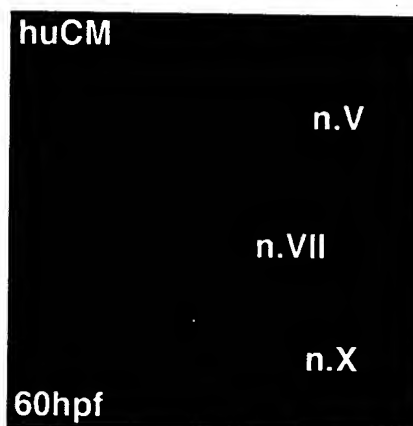
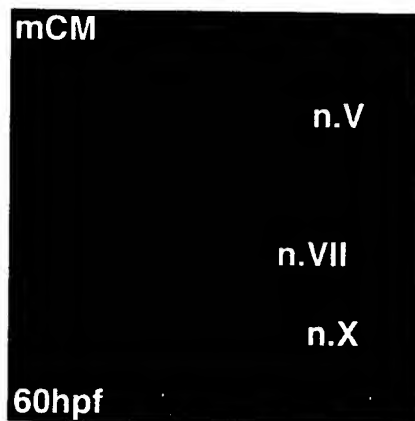


Fig. 15C



107525725

Fig. 16A

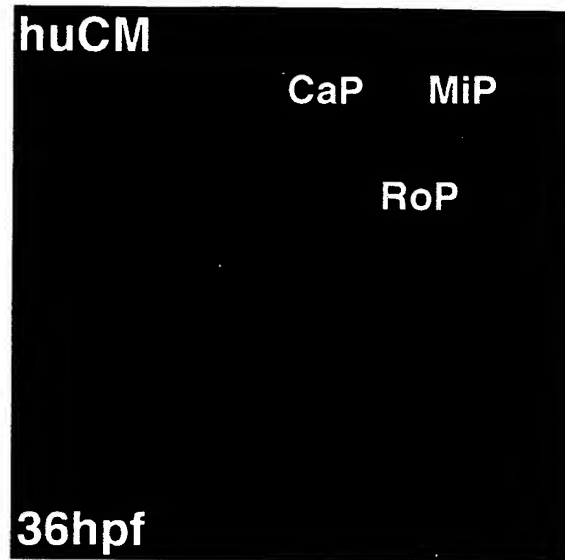


Fig. 16B

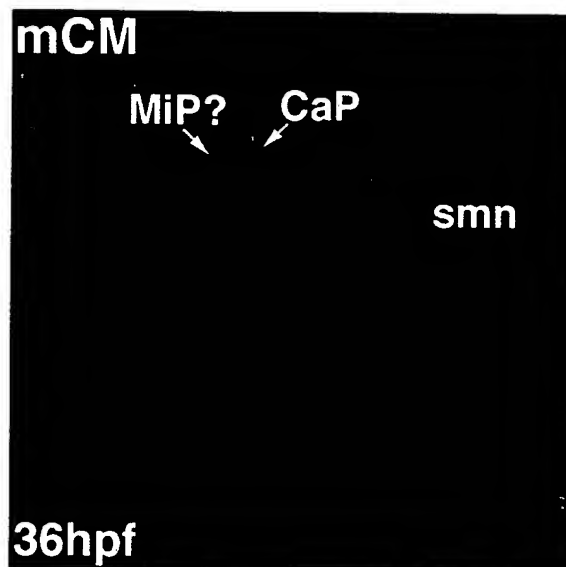


Fig. 17

| | | | |
|------|-----|--|-----|
| zSS | 399 | GCRAAGCACCITTTTC--TAGTGACTCAGAGGATTAACCTCCATTAACTATTTCAGAGGC | 456 |
| huSS | 465 | GTAAAGCCATTTAATCCCTGACTTATCAT-TAACCTCCATTAACTATTAGTGAAGA | 523 |
| zSS | 457 | TGTTAAATGCACCTCAGTCAATAATGCTAATTCGAAGGCATTGTATAGCTGTTAGA | 516 |
| huSS | 524 | AGTTAAATGTACCTTAGTCAATAATGCTAATTCAGGAC-TGTTGTATTCCTATGGAGA | 582 |
| zSS | 517 | AATGTATTTCATATTATGCTAAGTGGCATCTTTATTACAGG-TATTACAAATTGCA | 575 |
| huSS | 583 | AATGCTATTTCATATTATGTTAAGTGGCATCTTTACGATTAACTTATGTGTTAGG | 642 |

Fig. 18A

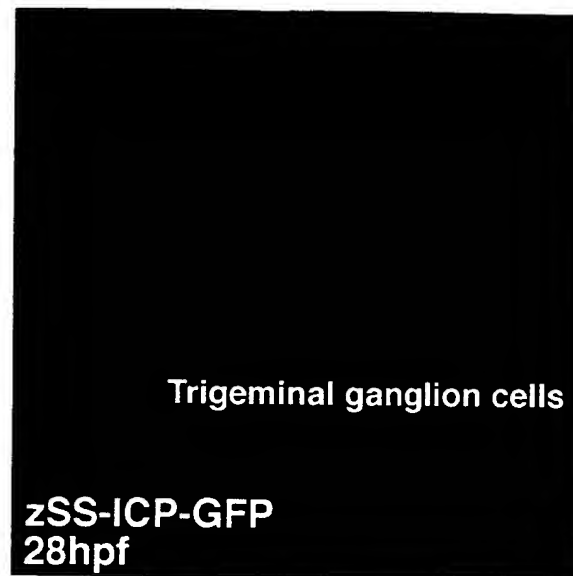


Fig. 18B

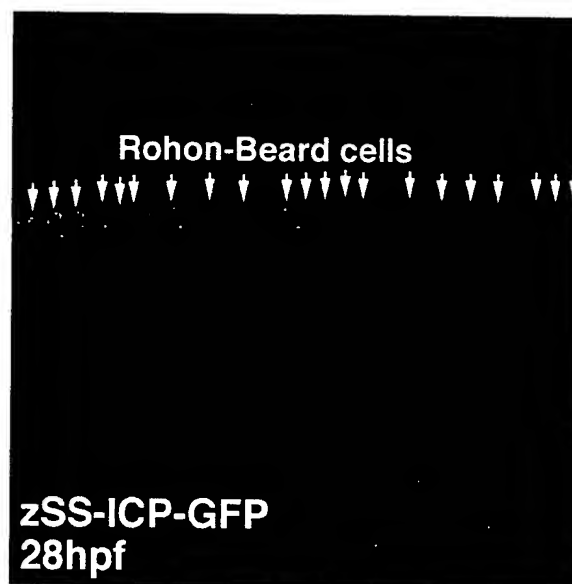


Fig. 19

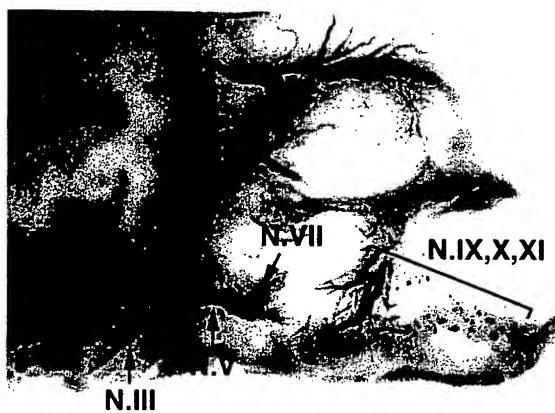
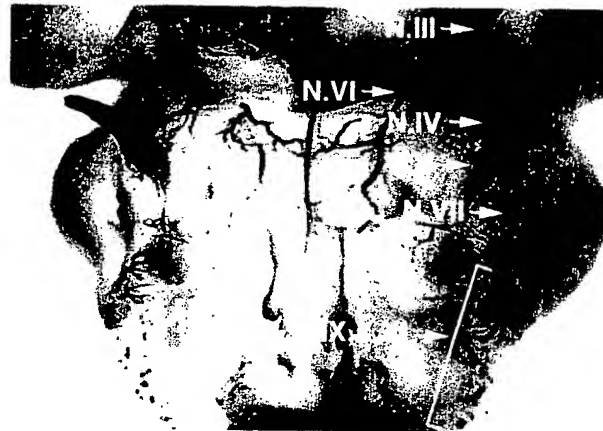


Fig. 20



10/52E

Fig. 21

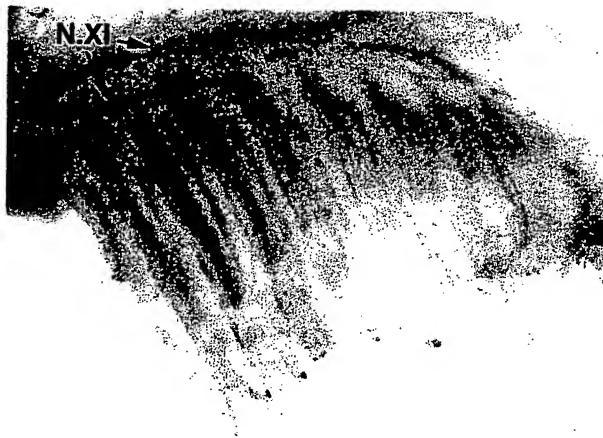


Fig. 22

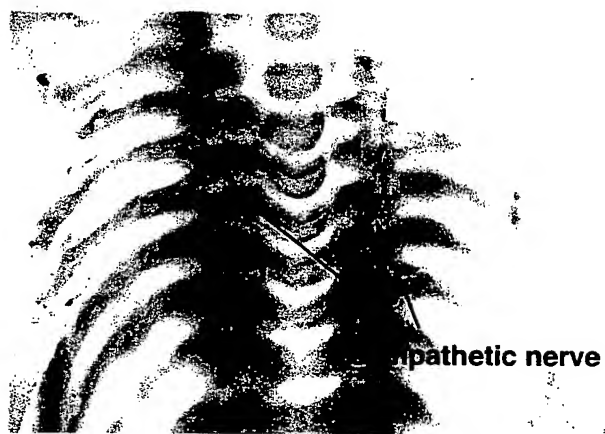


Fig. 23



Fig. 24

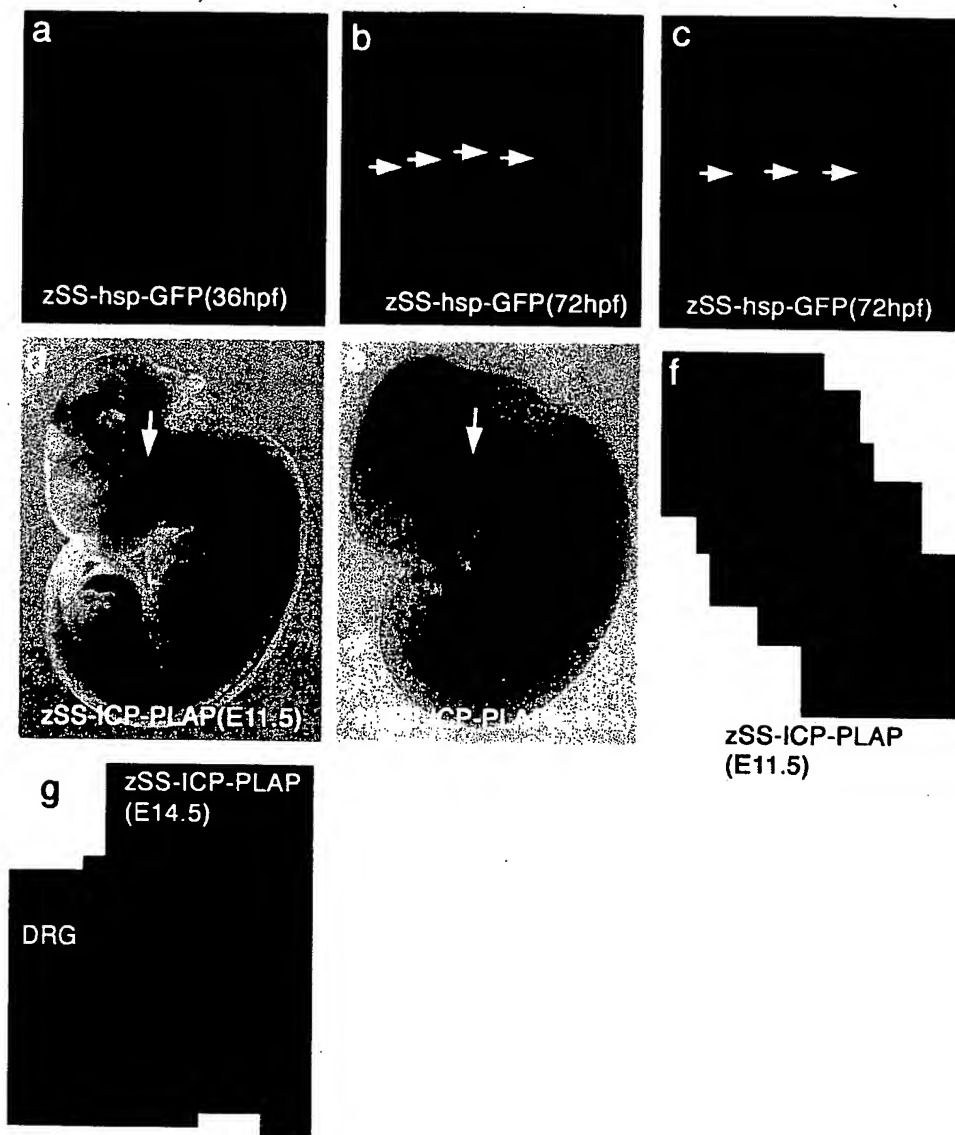
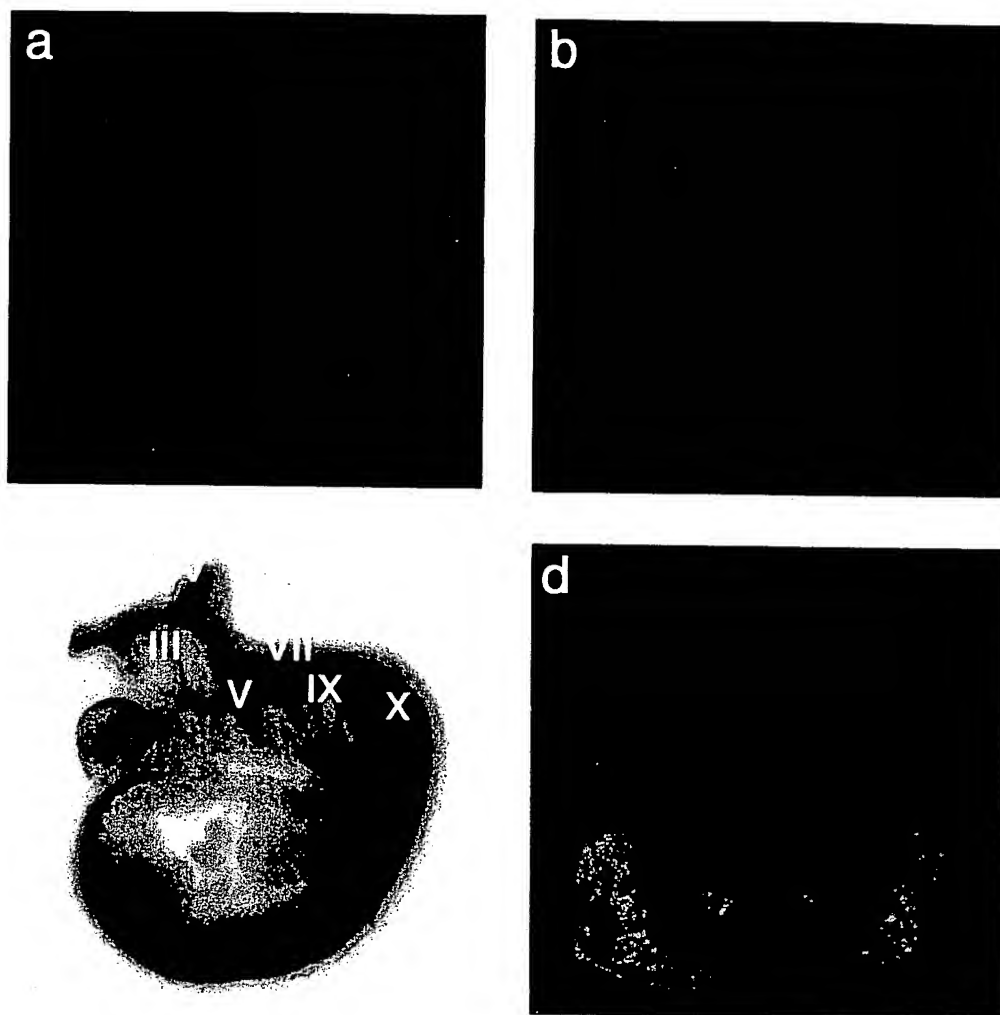


Fig. 25



**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ BLACK BORDERS

☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

☒ FADED TEXT OR DRAWING

☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING

☐ SKEWED/SLANTED IMAGES

☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS

☐ GRAY SCALE DOCUMENTS

☐ LINES OR MARKS ON ORIGINAL DOCUMENT

☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.